Concurrent Treatment of PTSD and Substance Use Disorders using Prolonged Exposure (COPE)







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Acknowledgements

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Disclosure Statement

The COPE military trial was sponsored by NIDA R01 (DA030143; PI: Back) and the therapy manuals are published through Oxford University Press.

Agenda

1. PTSD and Substance Use Disorder (SUD) comorbidity

2. COPE: Overview of Aims and Content

3. Findings to Date

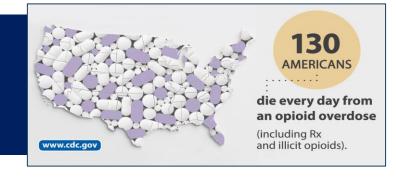
4. Future Directions

1. Comorbidity of PTSD and SUD



- Individuals with (vs. without) PTSD are 2-5 times more likely to have an SUD.
- Among Veterans serving in Vietnam era or later (N=1,001,996), 41.4% with an SUD were diagnosed with PTSD (Petrakis et al., 2011).
- Among first-time users of VA healthcare from 2001-2010 (N=456,502), 63.0% with alcohol use disorder had comorbid PTSD (Seal et al., 2011).
- The onset of PTSD typically precedes onset of SUD.

PTSD and Opioids



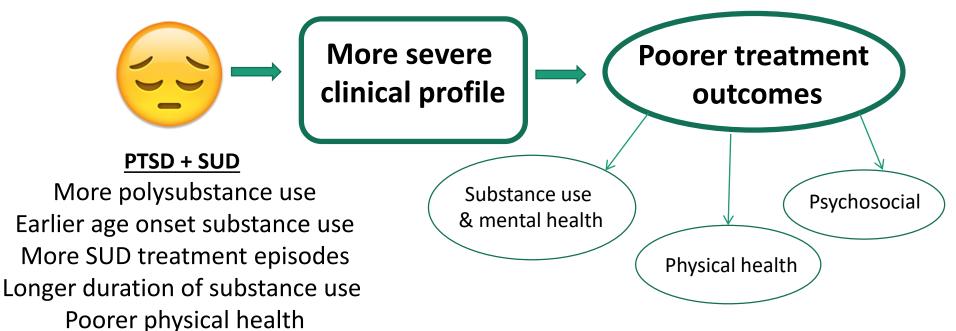
- Prescription opioids (e.g., hydrocodone, oxycodone) are the most commonly used drug, 2nd only to marijuana.
- High rates of trauma (e.g., 92-97%) and PTSD (33-54%) among patients with opioid use disorder (OUD) (Mills et al., 2005, 2006; Peirce et al., 2009).
- Among military service members, odds of having PTSD was 28 times higher in those with, vs. without, OUD (Dabbs et al., 2014).
- Concurrent trauma-focused treatment may be important in retention and overall outcomes (Meshberg-Cohen et al., 2019).

PTSD+SUD Negative Outcomes

Poorer psychosocial functioning

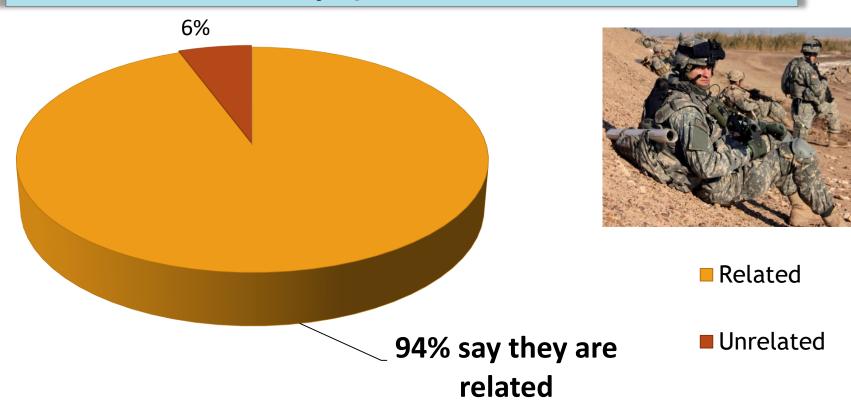


Dr. Emma Barrett



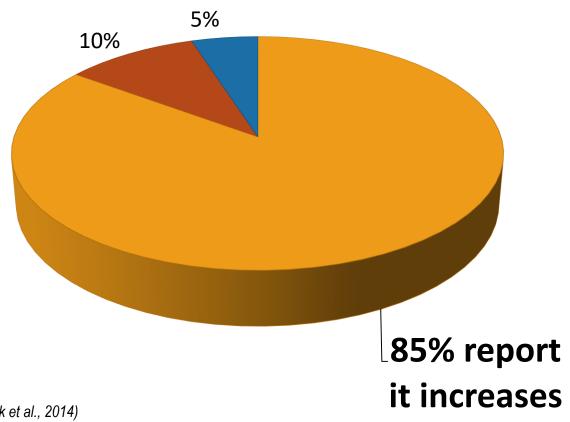
Do you believe that your substance use and PTSD symptoms are related?

Almost all (94%) indicate that their substance use and PTSD symptoms are related.



If your PTSD symptoms get worse, what happens to your substance use?

Most Veterans (85%) indicate that their substance use increases when their PTSD symptoms get worse.





- Increase
- Stay the Same
- Decrease

(Back et al., 2014)

Clinical Trials for PTSD often exclude patients with SUD

Behaviour Research and Therapy 89 (2017) 33-40



Contents lists available at ScienceDirect

Behaviour Research and Therapy

journal homepage: www.elsevier.com/locate/brat



Exclusion of participants based on substance use status: Findings from randomized controlled trials of treatments for PTSD



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Robert F. Leeman <sup>a, b, c, *</sup>, Kathryn Hefner <sup>b, c</sup>, Tessa Frohe <sup>a</sup>, Adrian Murray <sup>d</sup>, Robert A. Rosenheck <sup>b, c</sup>, Bradley V. Watts <sup>e, f</sup>, Mehmet Sofuoglu <sup>b, c</sup>
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- Out of 156 RCTs, 73.7% excluded participants based on substance use status (e.g., current, past year, or lifetime diagnosis of substance abuse or dependence).
- Only 7.7% examined substance use related outcomes.
- Importantly, no studies observed increases in substance use during the course of PTSD treatment.

Treatment Models for Co-Occurring PTSD and SUD

Sequential Model: SUD first....PTSD later

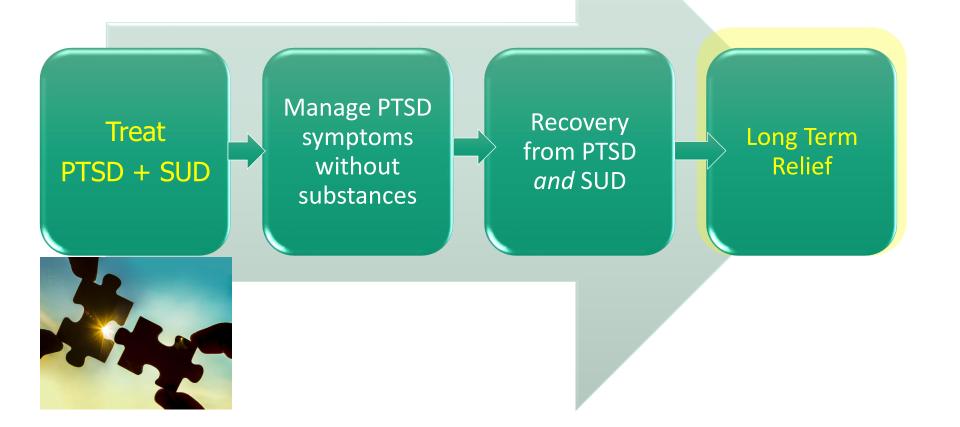
- Can be difficult for some patients to achieve abstinence or reduce use, especially in the face of PTSD symptoms.
- Unclear how many patients who complete SUD treatment follow-up with PTSD treatment.
- Two treatment episodes, longer time in treatment, higher costs for patient, greater burden for healthcare system and clinicians.

Treatment Models for Co-Occurring PTSD and SUD continued

Integrated Model: PTSD + SUD concurrently

- More efficient use of time and clinical resources (2 disorders treated in the same time as 1 disorder).
- Significant proportion of PTSD/SUD patients prefer an integrated treatment approach.
 - ✓ One clinician and one treatment episode
- Data suggest that reductions in PTSD symptoms are more likely to lead to reductions in SUD, than the reverse.

Overview of PTSD/SUD Integrated Treatment Model



COPE Collaborators









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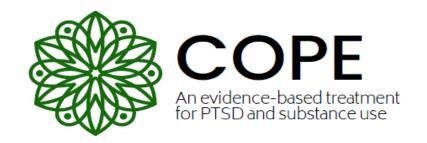




Drs. Katherine Mills, Maree Teesson & Emma **Barrett** Sydney, Australia

2. COPE Overview: Aims and Content





COPE consists of 12, individual sessions, 90 minutes each, delivered weekly.

Synthesis of two evidence-based treatments:

- 1. Prolonged Exposure (PE) for PTSD (Foa)
- 2. Cognitive Behavioral Therapy (CBT) for SUD (Carroll)

Primary goals:

- 1. Psychoeducation regarding the functional relationship between PTSD and substance use.
- 2. Decrease PTSD symptoms via Prolonged Exposure.
- 3. Decrease substance use using cognitive behavioral techniques.

Overview of COPE Content

Session

Session Topic

1	Introduction: Psychoeducation, Therapy Contract and Goals, Breathing Retraining
2	PTSD: Common Reactions to Trauma SUD: Awareness of Cravings
3	PTSD: In Vivo Hierarchy SUD: Managing Cravings
4	PTSD: First Imaginal Exposure SUD: Review Coping Skills

Overview of COPE Content continued

Session

Session Topic

5	PTSD: Imaginal Exposure continued SUD: Planning for Emergencies
6	PTSD: Imaginal Exposure continued SUD: Awareness of High-Risk Thoughts
7	PTSD: Imaginal Exposure continued SUD: Managing High-Risk Thoughts
8	PTSD: Imaginal Exposure continued SUD: Refusal Skills

Overview of COPE Content continued

Session

Session Topic

9	PTSD: Imaginal Exposure continued SUD: Seemingly Irrelevant Decisions
10	PTSD: Imaginal Exposure continued SUD: Awareness of Anger
11	PTSD: Imaginal Exposure continued SUD: Managing Anger
12	Review and Termination

Techniques To Decrease PTSD

- Psychoeducation education about common reactions to trauma (including increased substance use) and the interrelationship between PTSD symptoms and use. Handouts for loved ones and family.
- Breathing Retraining technique to manage anxiety (and cravings).
- Prolonged Exposure (PE):
 - In-vivo Exposure
 - Imaginal Exposure

In Vivo Exercises

- In-between therapy sessions.
- Repeated and prolonged (30-45 min).

Common examples:

- Walmart or other crowded store
- Restaurant or movie theatre
- Driving during rush hour





*Very important that patients not use alcohol or drugs before, during, or immediately after in vivo exercises to ensure mastery, growth and new learning takes place.

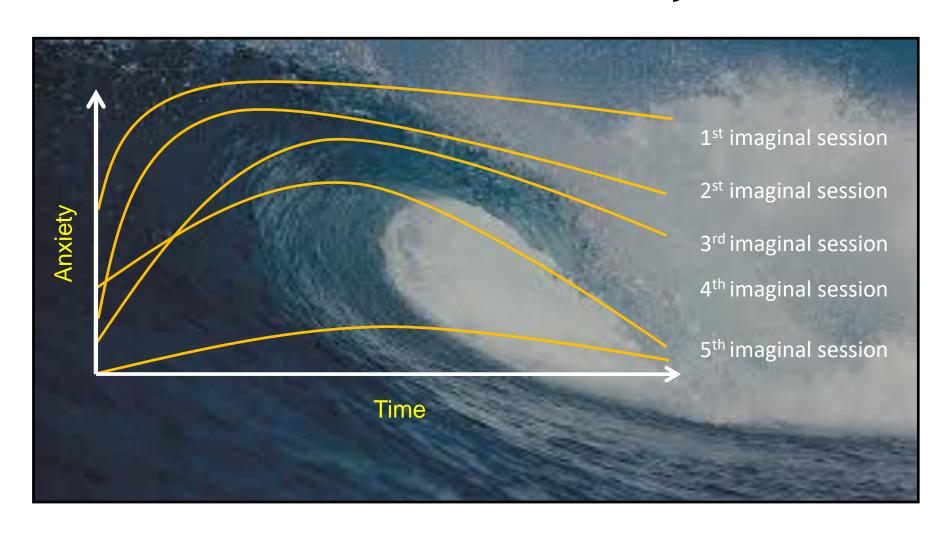
*Choose in vivo situations that are safe with regard to substance use.



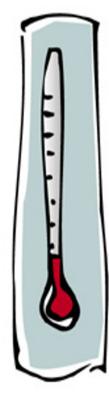
Imaginal Exposure

- Repeated revisiting of trauma memory (~30 min per session x 8 sessions).
- Learn to discriminate between past vs. present, that thinking about event is not dangerous, and that anxiety (like cravings) does not last forever.
- Trauma memory becomes more organized and maladaptive beliefs are addressed.
- *Very important that patients not use alcohol or drugs before therapy sessions or during homework exercises (e.g., listening to the recordings).
- *Routine breathalyzer test before each therapy session.

The Wave of Anxiety

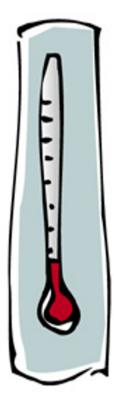


SUDS: The Subjective Distress Thermometer



- 100 Highest anxiety/distress that you have ever felt
- 90 Extreme anxious/distressed
- 80 Very anxious/distressed; can't concentrate. Physiological signs may be present.
- 70 Quite anxious/distressed; interfering with functioning. Physiological signs may be present.
- 60 Moderate to strong anxiety or distress
- 50 Moderate anxiety/distress; uncomfortable, but can continue to function
- 40 Mild to moderate anxiety or distress
- 30 Mild anxiety/distress; no interference with functioning
- 20 Minimal anxiety/distress
- 10 Alert and awake; concentrating well
- 0 No distress; totally relaxed

Craving Thermometer



- 100 Strongest craving you have ever felt
- 90 Extreme craving
- 80 Very intense craving, persistent thoughts about using, physiological signs present
- 70 Strong craving, interfering with functioning, unable to concentrate, may have physiological signs
- 60 Moderate to strong craving
- 50 Moderate craving, starting to interfere with functioning and concentration
- 40 Mild to moderate craving
- 30 Mild craving, thoughts about using, not interfering with functioning
- 20 Minimal craving, fleeting thoughts about wanting to use
- 10 Fleeting thoughts about alcohol or drugs
- 0 No craving

Patient Imaginal Exposure Data Form

<u>Instructions:</u> Record your level (0 to 100) immediately before and after listening to the *imaginal* exposure. Also record the highest level (the peak) you experienced while listening to the *imaginal* exposure.

Use this scale to rate your <u>SUDS</u>: 0 = no distress to 100 = extreme distress. Use this scale to rate your craving: 0 = no craving to 100 = extreme craving.

		BEFORE		HIGHEST DURING		AFTER	
		SUDS	Craving	SUDS	Craving	SUDS	Craving
#1	Date:						
#2	Date:						
#3	Date:						
#4	Date:						
#5	Date:						
#6	Date:						
#7	Date:						

Craving and SUDS Decrease Over Time

Mean ratings of pre- and post-imaginal craving and distress by session.

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Dr. Amber Jarnecke

	Pre-imaginal	Post-imaginal	Pre-imaginal	Post-imaginal
	M (SD)	M (SD)	M (SD)	M (SD)
4	18.11 (25.99)	23.31 (32.04)	52.05 (24.03)	58.13 (27.10)
5	22.08 (30.36)	24.57 (31.61)	41.35 (28.12)	50.22 (26.51)
6	16.05 (25.63)	19.05 (25.73)	41.03 (26.88)	42.44 (25.54)
7	8.91 (15.95)	10.03 (19.94)	35.30 (24.97)	38.64 (24.73)
8	8.44 (16.34)	12.37 (22.87)	28.59 (23.29)	36.72 (26.32)
9	10.21 (17.93)	13.75 (25.41)	33.83 (24.94)	35.70 (27.65)
10	8.62 (14.69)	6.96 (19.50)	21.38 (19.77)	28.28 (24.50)
11	7.78 (16.25)	7.67 (17.33)	25.37 (22.31)	27.78 (19.18)

Techniques to Decrease Substance Use

Abstinence is not required, but is encouraged.

 Note that approximately <u>half</u> of treatment-seeking patients with PTSD/SUD want to abstain (Lozano et al., 2015).

For alcohol, use the NIAAA guidelines for low-risk drinking, when

applicable:



 For people over 65, exceeding 3 drinks a day or 7 drinks a week is not recommended.

Techniques to Decrease Substance Use

continued

Managing cravings and thoughts about using:

- Normalize cravings.
- Emphasize that cravings are time-limited, like a wave.
- Decision delay technique: Delay the decision to use for 15 minutes and engage in healthy activities (e.g., call a friend, exercise, watch a movie, go to AA/NA meeting, go for a walk).



Techniques to Decrease Substance Use

continued

- Urge surfing
- Breathing retraining exercise
- Challenge your thoughts:
 - Will using <u>really</u> make you sleep better….?
 - Will another drink really make you <u>forget</u> what happened...?
 - Can you really use "just one"....?
 - Is it true that the <u>only</u> way to make the craving go away is by using....?



Techniques to Decrease Substance Use continued

Identify triggers for using:

 Which people, places and things do you need to stay away from in order to stay healthy?







- Note the distinction between encouraging patients to:
 - (a) <u>avoid substance-related</u> cues or places in the environment that are not safe and could increase substance use or relapse risk.
 - (b) <u>approach trauma-related</u> memories, thoughts, or situations in the environment that are safe.

Additional Notes on Working with PTSD/SUD

- Typically start session with the PTSD component to (a) emphasize not avoiding trauma memory, (b) have enough time for the imaginal, (c) end session on positive SUD coping skills.
- Have a compassionate, nonjudgmental approach in working with patients with PTSD/SUD. High levels of shame and guilt are common.
- Remember that *SUD* is a chronic, relapsing brain disease characterized by dysregulated brain functioning in numerous regions, particularly corticolimbic regions, associated with executive functioning, decision making, reward processing, response inhibition, and emotion regulation.
- Be patient and repeat important messages, rationale, and instructions as needed.

3. Findings to Date



COPE Studies to Date

Research to date includes **476 participants** in 4 RCTs, 2 open-label trials, and 2 case reports. Findings show COPE is safe, feasible, and results in significant reduction in PTSD and SUD.

Completed COPE Studies				
Brady et al., 2001	First open-label trial (cocaine and PTSD)			
Mills et al., 2012	First RCT (polysubstance and PTSD, Australia)			
Back et al., 2012	First OEF/OIF military Veteran (alcohol and PTSD)			
Ruglass et al., 2017	RCT in civilians with sub-threshold or full PTSD (polysubstance)			
Persson et al., 2017	Open-label trial of translated manual (women with alcohol and PTSD, Sweden)			
Jaconis et al., 2017	First telehealth case (female Veteran with alcohol and MST)			
Back et al., 2019	First RCT in military Veterans (mostly alcohol and PTSD)			
Norman et al., 2019	First comparison of COPE vs. Seeking Safety (military Veterans with alcohol and PTSD)			

Initial Open-Label COPE Study

- N = 39 individuals with cocaine dependence and PTSD
- Mean age = 34 years old

Treatment outcome

- 82.1% women
- 74.4% reported rape and 94.9% physical assault



Dr. Kathleen Brady

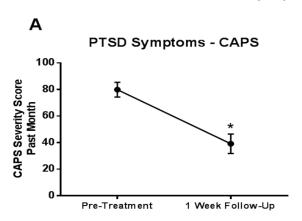
	Pre- to Postreatment ^a		
	M(SD)	M(SD)	
IES			
Intrusion	19.5 (13.0)	9.1 (7.1)*	
Avoidance	20.1 (9.1)	14.6 (8.2)	
Total	39.6 (21.4)	23.8 (13.7)	
CAPS		•	
Intrusion	9.4 (6.3)	3.2 (6.7)**	
Avoidance	19.7 (10.1)	5.8 (8.9)**	
Hyperarousal	16.6 (7.9)	8.7 (11.6)*	
Total	45.2 (19.8)	15.8 (23.0)***	
MISS			
Total	111.7 (21.9)	83.7 (24.8)*	
BDI	12.1 (8.0)	5.7 (7.4)*	
ASI			
Family	0.28 (0.19)	0.18 (0.16)	
Medical	0.35 (0.37)	0.26 (0.34)	
Employment	0.61 (0.37)	0.57 (0.38)	
Psychiatric	0.46 (0.10)	0.19 (0.17)***	
Legal	0.13 (0.17)	0.07 (0.07)	
Drug	0.20 (0.08)	0.08 (0.07)***	
Alcohol	0.27 (0.22)	0.11 (0.16)***	

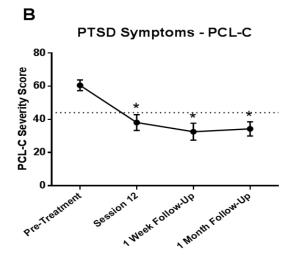
Pilot Study in Sweden



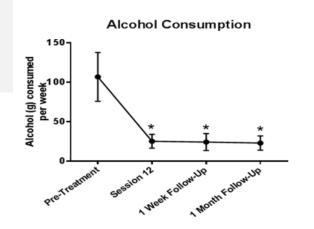
PTSD Symptoms

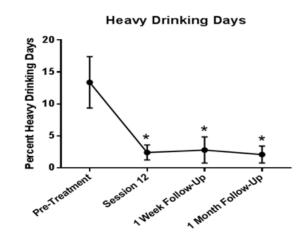
- N = 22
- Average age = 45.5
- Women with PTSD and alcohol use disorder
- Average number of trauma types = 7.3
- Childhood trauma (90.9%)
- Age of first trauma = 9.0 years old
- Baseline BDI = 30.4
- Baseline CAPS = 78





Alcohol Use Symptoms





(Persson et al., 2017)

RCT in Australia





August 15, 2012

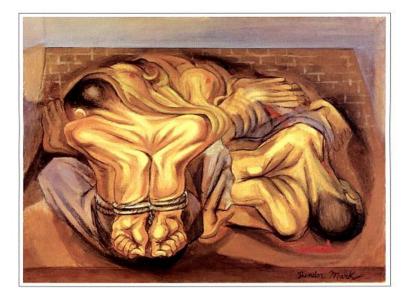


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ORIGINAL CONTRIBUTION

Integrated Exposure-Based Therapy for Co-occurring Posttraumatic Stress Disorder and Substance Dependence

A Randomized Controlled Trial

Katherine L. Mills, PhD

Maree Teesson, PhD

Sudie E. Back, PhD

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ROLONGED EXPOSURE THERAPY, A ognitive-behavioral therapy (CBT) involving exposure to memories and reminders of past trauma, has long been regarded as a gold standard treatment for posttraumatic stress disorder (PTSD). Although there are other evidence-based treatments for PTSD, such as eve movement desensitization and reprocessing therapy, there is more empirical evidence for the efficacy of prolonged exposure than for any other treatment.1 Indeed, the International Consensus Group on Depression and Anxiety recommends prolonged exposure as the most appropriate form of psychotherapy for PTSD,2 and it was the only treatment for PTSD endorsed in a US Institute of Medicine study as evidence based.3 The efficacy of prolonged exposure in reducing PTSD symptom severity has been demonstrated among persons from a number of populations who have been exposed to a wide variety of trauma types.4 There is, however, a notable absence of research examining the

See also p 714 and Patient Page.

Context There is concern that exposure therapy, an evidence-based cognitivebehavioral treatment for posttraumatic stress disorder (PTSD), may be inappropriate because of risk of relapse for patients with co-occurring substance dependence.

Objective To determine whether an integrated treatment for PTSD and substance dependence, Concurrent Treatment of PTSD and Substance Use Disorders Using Prolonged Exposure (COPE), can achieve greater reductions in PTSD and substance dependence symptom severity compared with usual treatment for substance dependence.

Design, Setting, and Participants Randomized controlled trial enrolling 103 participants who met DSM-IV-TR criteria for both PTSD and substance dependence. Participants were recruited from 2007-2009 in Sydney, Australia; outcomes were assessed at 9 months postbaseline, with interim measures collected at 6 weeks and 3 months postbaseline.

Interventions: Participants were randomized to receive COPE plus usual treatment (n=55) or usual treatment alone (control) (n=48). COPE consists of 13 individual 90-minute sessions (ie, 19.5 hours) with a clinical psychologist.

Main Outcome Measures Change in PTSD symptom severity as measured by the Clinician-Administered PTSD Scale (CAPS; scale range, 0-240) and change in severity of substance dependence as measured by the number of dependence criteria met according to the Composite International Diagnostic Interview version 3.0 (CIDI; range, 0-7), from baseline to 9-month follow-up. A change of 15 points on the CAPS scale and 1 dependence criterion on the CIDI were considered clinically significant.

Results From baseline to 9-month follow-up, significant reductions in PTSD symptom severity were found for both the treatment group (mean difference, –38.24 [95% Cl, –47.93 to –28.94] and the control group (mean difference, –22.14 [95% Cl, –30.33 to –13.95]); however, the treatment group demonstrated a significantly greater reduction in PTSD symptom severity (mean difference, –16.09 [95% Cl, –39.00 to –3.19]). No significant between-group difference was found in relation to improvement in severity of substance dependence (0.43 vs 0.52; incidence rate ratio, 0.85 [95% Cl, 0.60 to 1.21), norwere there any significant between-group differences in relation to changes in substance use, depression, or anxiety.

Conclusion Among patients with PTSD and substance dependence, the combined use of COPE plus usual treatment, compared with usual treatment alone, resulted in improvement in PTSD symptom severity without an increase in severity of substance dependence.

Trial Registration isrctn.org Identifier: ISRCTN12908171

JAMA. 2012;308(7):690-699

www.jama.com

efficacy of prolonged exposure among individuals with co-occurring PTSD and substance dependence.

Epidemiologic and clinical research has demonstrated that trauma exposure among individuals with substance dependence is almost universal, and up to 62% experience comorbid PTSD. 36 Similarly.

up to 65% of patients with PTSD have been found to have a comorbid substance use disorder. ^{7,8} Although PTSD is perva-

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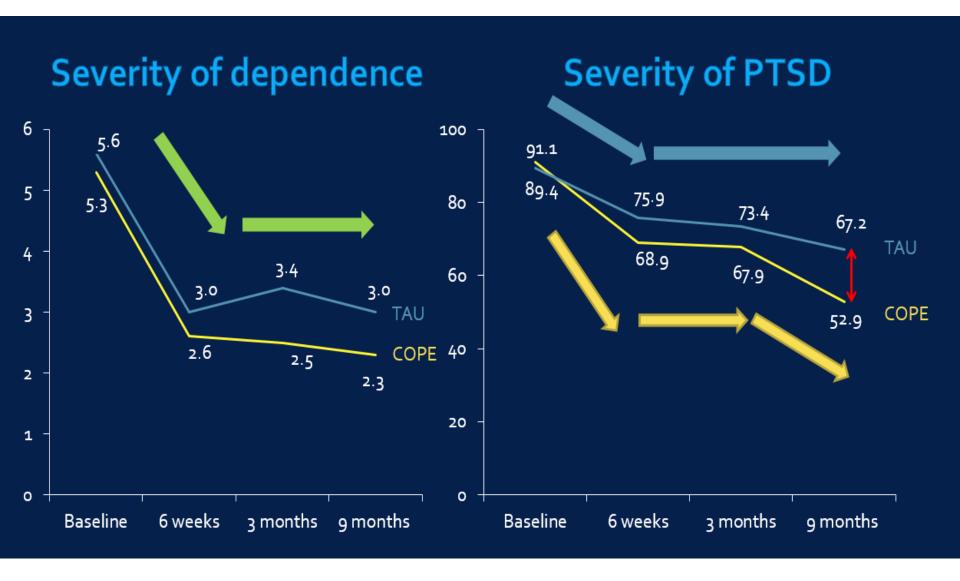
Substance use characteristics

Substance use	N=103
Age of first intoxication	13yrs (6-29)
History of injecting drug use	80%
Prior substance use treatment	93%
Past-month substance use - Benzodiazepines - Cannabis - Alcohol - Heroin - Amphetamines - Cocaine	73% 69% 67% 45% 42% 21%
Main drug of concern - Heroin - Cannabis - Amphetamines - Benzodiazepines - Alcohol - Cocaine	21% 20% 18% 16% 12% 7%

Trauma/PTSD characteristics

Trauma/PTSD	N=103
Age of first trauma	8yrs (1-44)
History of childhood trauma	77%
Prior PTSD treatment	35%
Number of traumas	6 (2-10)
Trauma types - Physical assault - Threatened or held captive - Witnessed injury or death - Sexual assault - Accident or disaster - Torture - Combat experience	93% 89% 79% 78% 66% 24% 2%
Median duration of PTSD symptoms	10yrs (1-40)

Average baseline CAPS total = 90



Substance use did not increase with exposure work.

Clinical Case Conference

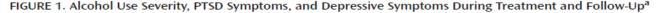
From the Medical University of South Carolina

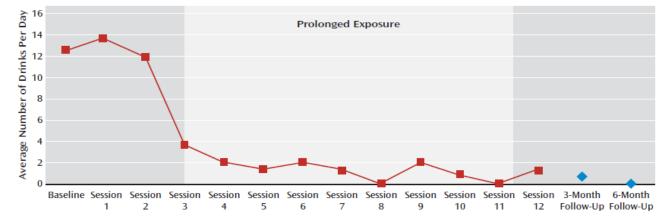
Use of an Integrated Therapy With Prolonged Exposure to Treat PTSD and Comorbid Alcohol Dependence in an Iraq Veteran

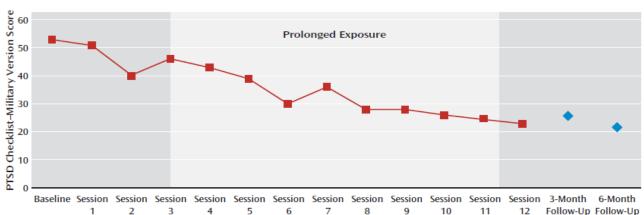


Dr. Liz Santa Ana

Am J Psychiatry 169:7, July 2012







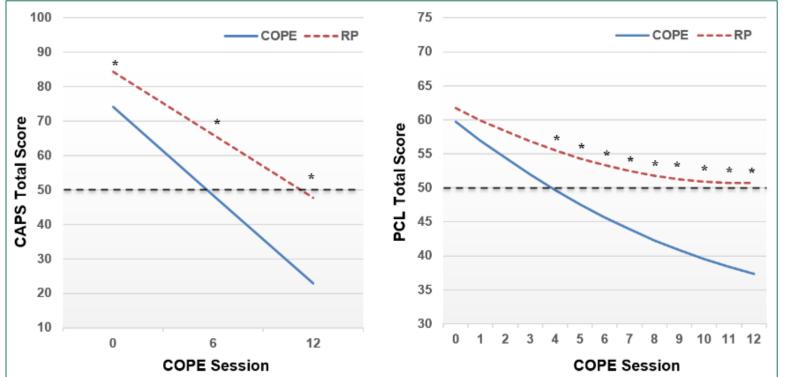
RCT in Military Veterans

Ralph H. Johnson VA, Charleston SC

Addictive Behaviors 90 (2019) 369-377

- N = 81, 90.1% male,
- Average age = 40.4 years old, 37% AA
- Branch = 56.8% Army, 16.0% Marines, 11.0% Navy, 8.6% Air Force
- Served in OEF/OIF/OND = 64.6%
- Military related index trauma = 81.0%
- 63% alcohol use disorder only, 27.2% both alcohol and drug use disorders
- CAPS baseline = 81





- Dr. Christal Badour

- COPE resulted in significantly lower CAPS (*p*<.001, controlling for baseline) and PCL (*p*=.01) compared to Relapse Prevention (RP).
- Significantly greater proportion of participants achieved PTSD diagnostic remission in COPE (83.3% [46.3% of ITT]) versus RP (35.7% [18.5% of ITT]), *p*=.004.

Results continued



Substance Use:

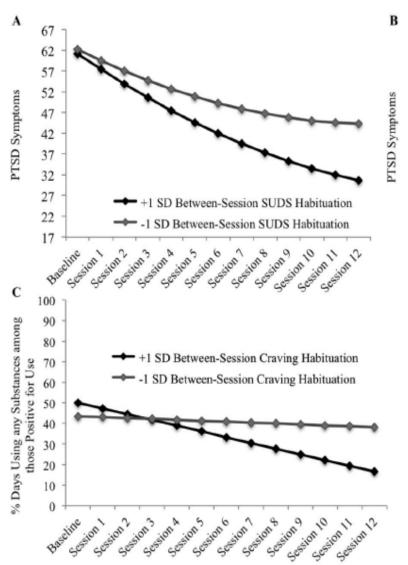
- Substance use decreased significantly with 42.6% in COPE and 25.9% in RP achieving 3+ consecutive weeks of abstinence.
- < 20% in both groups met NIAAA criteria for at-risk drinking at end of treatment.
- At 6-months follow-up, COPE evidenced fewer drinks per drinking day than RP (4.5 vs. 8.3, *p*=.05).

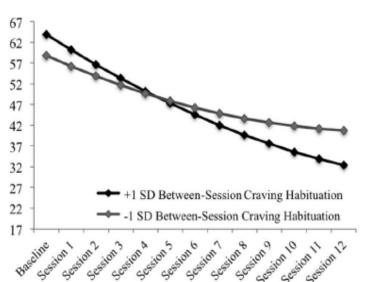
Therapeutic Alliance (TA):

- Patients rated TA positively at session 6 (COPE M=5.3 vs. RP M=5.5) and 12 (COPE M=5.2 vs. RP M=5.4).
- Therapists rated TA positive at session 6 (COPE M=5.0 vs. RP M=4.9) and 12 (COPE M=5.2 vs. RP=5.0).

Retention

Overall 8/12 sessions completed (COPE = 9 vs. RP = 7).







Dr. Christal Badour

Between-session (BS) habituation of distress and craving was associated with greater improvement in PTSD symptoms.

BS habituation of craving was also associated with greater reduction in substance use.

Within-session habituation of distress was unrelated to treatment outcome.

Efficacy of Integrated Exposure Therapy vs Integrated Coping Skills Therapy for Comorbid Posttraumatic Stress Disorder and Alcohol Use Disorder

A Randomized Clinical Trial

Sonya B. Norman, PhD; Ryan Trim, PhD; Moira Haller, PhD; Brittany C. Davis, PhD; Ursula S. Myers, PhD; Peter J. Colvonen, PhD; Erika Blanes, MA; Robert Lyons, BS; Emma Y. Siegel, BA; Abigail C. Angkaw, PhD; Gregory J. Norman, PhD; Tina Mayes, PhD



Dr. Sonya Norman

- N = 119 Veterans with PTSD and alcohol use disorder
- Average age = 41.6 years old, 89.9% males, 13.4% AA, 29.4% Hispanic
- Mean number of traumatic events = 8.3
- 84.0% combat trauma

COPE vs. Seeking Safety (SS; coping skills therapy):

- Significantly greater reduction in PTSD symptoms in COPE vs. SS (p=.002)
- Rates of PTSD remission were > 3 times higher in COPE vs. SS (p=.047).
- Comparable % days abstinent during COPE (67.5%) and SS (63.1%).
- Overall, 10/12 sessions attended, with fewer sessions in COPE (8.4) than SS (11.4) (p=.001).



COPE in Full vs. Sub-Threshold PTSD

- N = 110 individuals (~36% had subthreshold PTSD)
- Average age = 45 years old, 64% male, 59% AA
- 58.4% physical assault, 37.2% sexual assault
- Polysubstance use: 66.0% drug dependence, 76.5% alcohol dependence





Dr. Lesia Ruglass

Dr. Denise Hien

- COPE vs. RP vs. Active Monitoring Control Group:
 - Among those with full PTSD, COPE demonstrated significantly greater reduction in PTSD compared to RP (p=.047).
 - COPE and RP resulted in significant reductions in substance use.
 - Substance use did not increase with exposure work.
 - No differences in retention between treatments (COPE = 6 vs. RP = 7).



Summary

- Trauma-focused, exposure-based treatments such as COPE are safe, feasible, and effective in treating PTSD and alcohol and drug use disorders concurrently.
- Supported by critical reviews and meta-analyses, and in alignment with VA policy (Roberts et al., 2015; Simpson et al., 2017).
- Having a substance use disorder should not be a barrier to receiving treatment for PTSD.
- Patients with PTSD and SUD should be offered evidencebased treatment to address both conditions.

4. Future Directions

- More research is needed to explore ways to further improve outcomes and enhance retention.
- COPE-A trial for adolescents currently underway in Australia.
- Maximize outcomes via novel technology-based system that allows clinicians to virtually accompany patients during in vivo exercises and utilize real-time physiological markers of engagement.
 - https://web.musc.edu/about/news-center/2019/10/30/zeriscope
 - https://eurekalert.org/pub_releases/2019-11/muos-nii110119.php



Dr. Delisa Brown, Dr. Amber Jarnecke, Mr. Bill Harley, Dr. Robert Adams, Mr. William Brown, Dr. Sudie Back & Tanya Saraiya, PhD Candidate







PROJECT HARMONY: A Virtual Clinical Trial for PTSD, Alcohol and Other Substance Use Disorders



Dr. Denise Hien

Dr. Antonio Morgan-Lopez

Primary Goal: Synthesize data from over 50 PTSD/SUD treatment studies (> 4,000 participants) to examine:

- The relative efficacy of different PTSD/SUD treatments.
- Which treatments work for whom and how (moderators and mechanisms)?

https://www.projectharmonyvct.com/



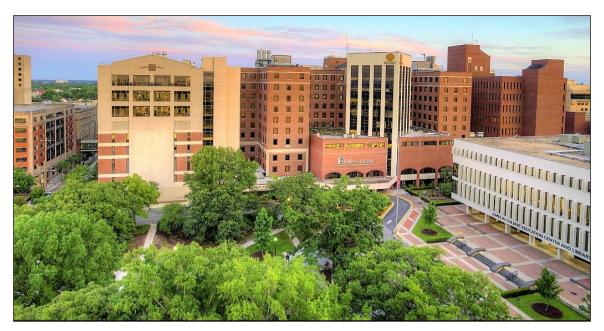






Thank you!

Sudie Back, PhD at <u>backs@musc.edu</u>











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UPCOMING TOPICS

SAVE THE DATE: Third Wednesday of the Month from 2-3PM (ET)

March 18	Massed Treatment for Veterans with PTSD	Cynthia Yamokoski, PhD
April 15	How Do We Make Effective Treatment for PTSD More Effective?	Paula Schnurr, PhD
May 20	Cognitive-Behavioral Conjoint Therapy for PTSD	Candice Monson, PhD
June 17	Using CogSmart with Veterans with PTSD and Traumatic Brain Injury	Elizabeth Twamley, PhD